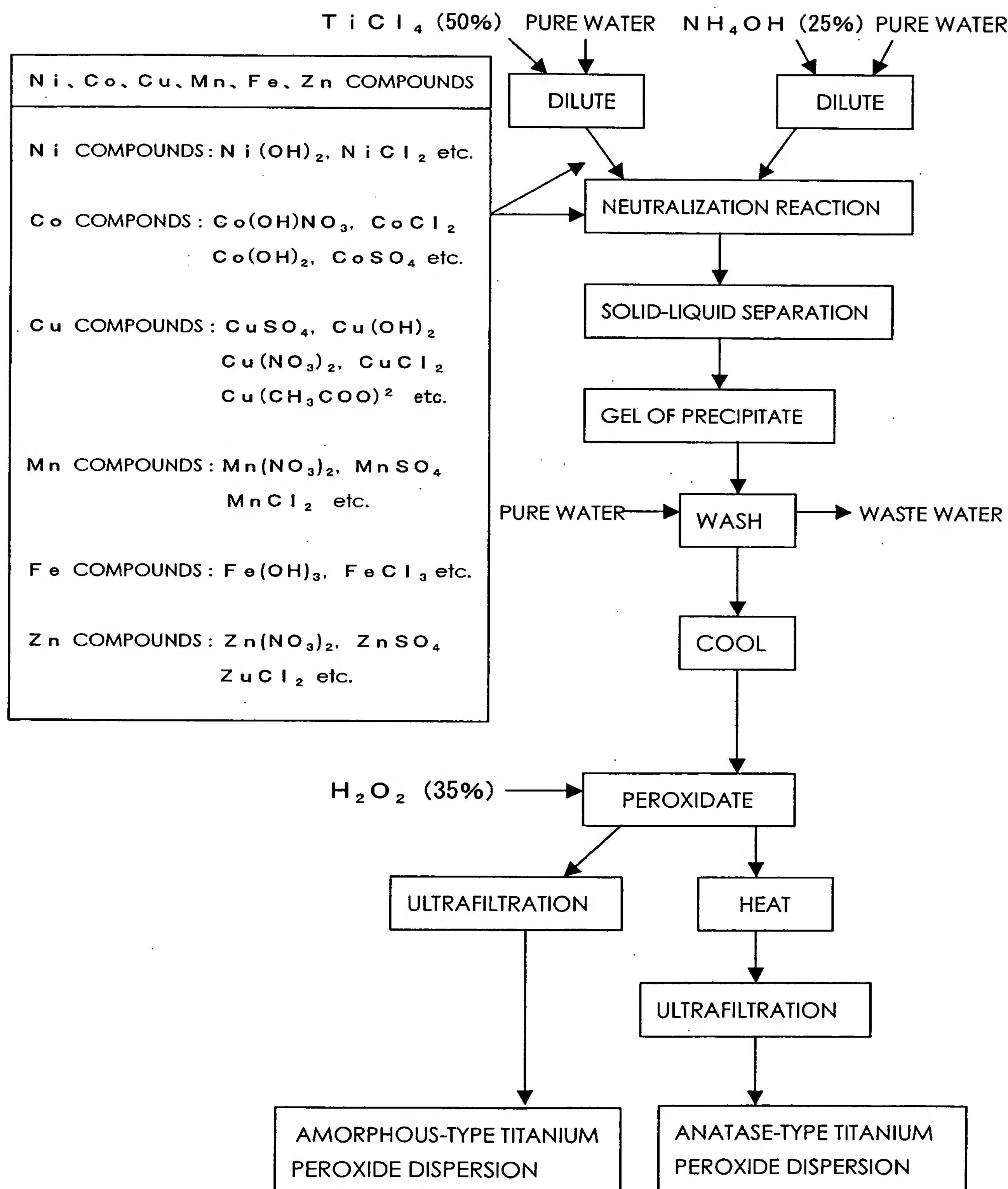


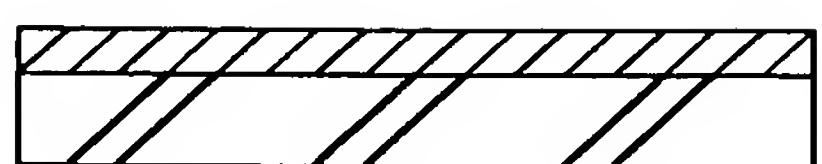
[FIG. 1]



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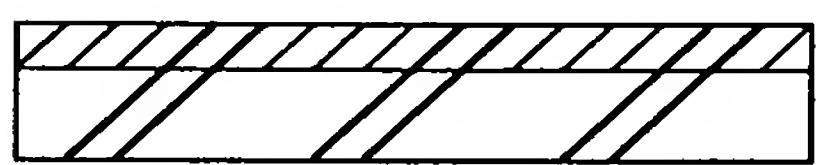
**【FIG. 2】**

**A**



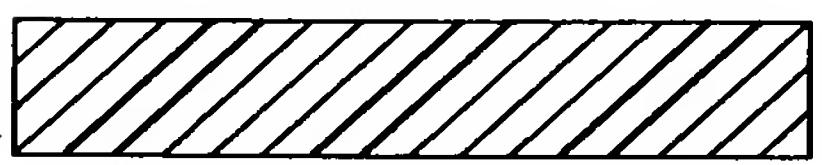
BUILD UP LAYER ON SUBSTRATE

**B**



PERMEATE INTO SUBSTRATE SURFACE

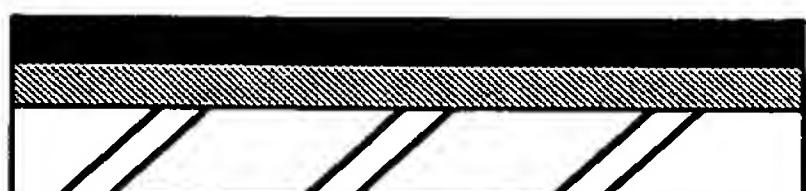
**C**



MIX INTO SUBSTRATE

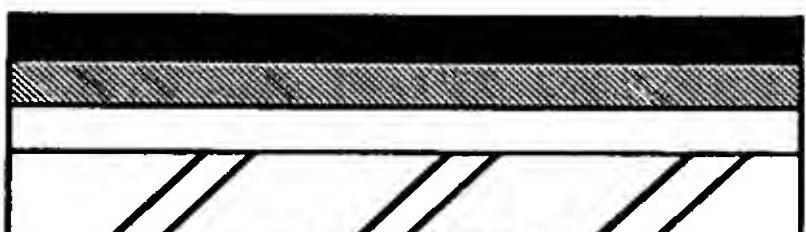
[FIG. 3]

A



- ORGANIC DYE/PIGMENT, OR ORGANIC POLYMER RESIN CONTAINING ORGANIC DYE/PIGMENT
- COATING FILM CONTAINING AMORPHOUS-TYPE TITANIUM OXIDE DOPED WITH ONE OUT OF COMPOUNDS OF Mn, Cu, Ni, Fe AND Zn

B



- COATING FILM CONTAINING AMORPHOUS-TYPE TITANIUM OXIDE DEPTED WITH COMPOUND OF Mn OR Cu (EXCEPT IN THE CASE OF A 2-LAYER COATING, A COMBINATION IN WHICH BOTH RE DOPED WITH THE SAME METAL COMPOUND IS NOT USED)

C



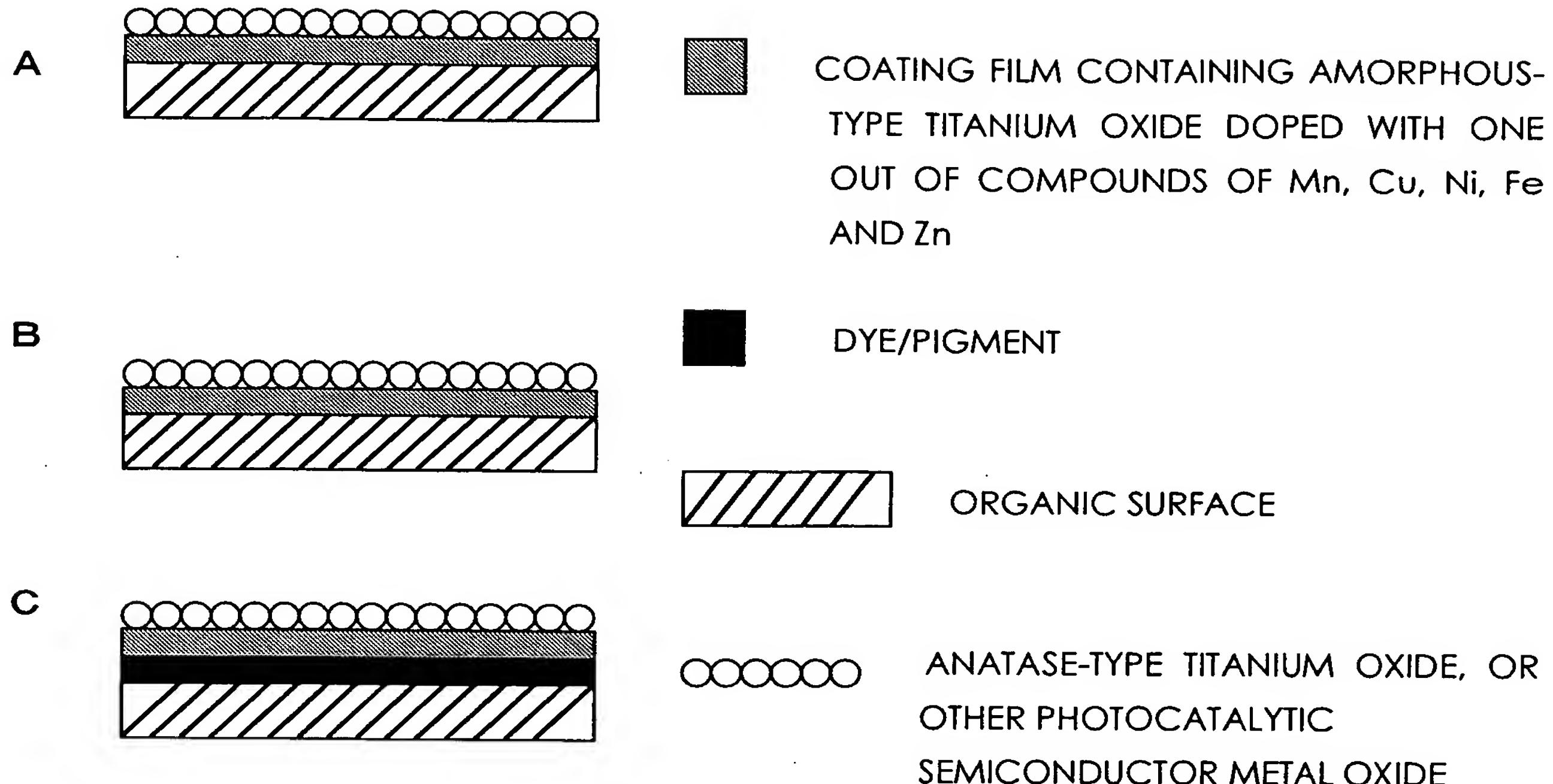
- COATING FILM CONTAINING MIXTURE OR AMORPHOUS-TYPE TITANIUM OXIDE DOPED WITH Mn COMPOUND AND AMORPHOUS-TYPE TITANIUM OXIDE DOPED WITH Cu COMPOUND

 SUBSTRATE

D



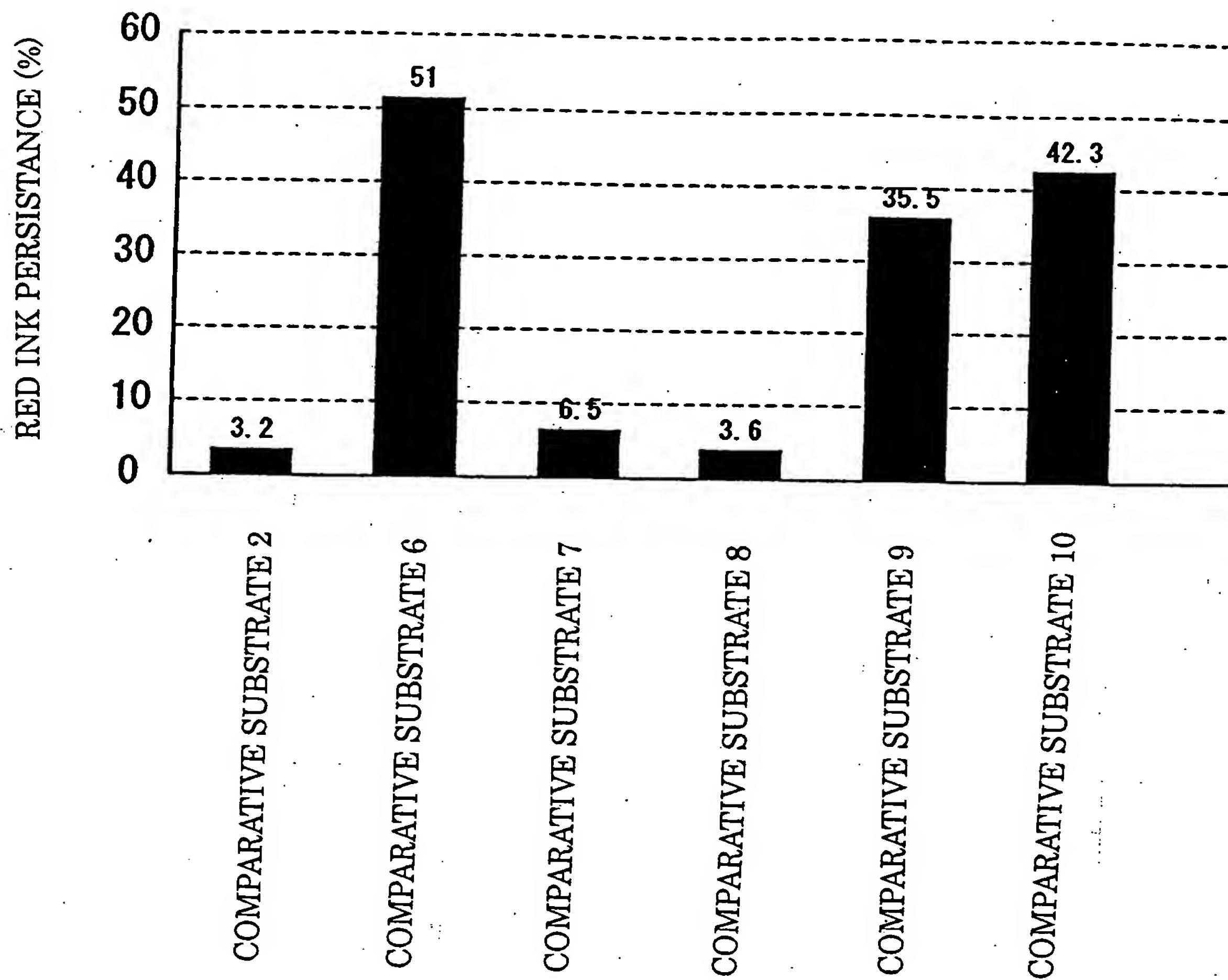
【FIG. 4】



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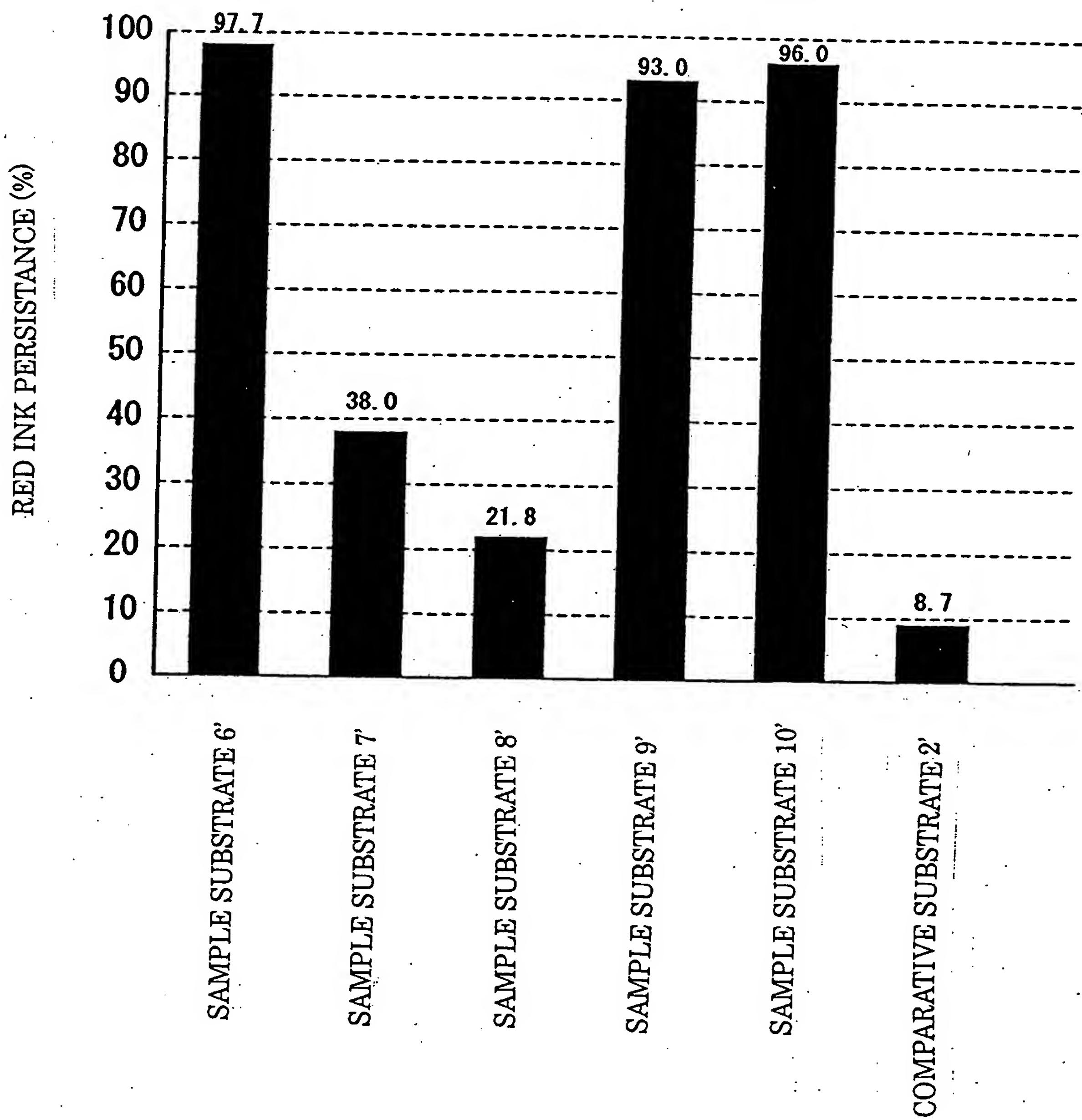
【FIG. 5】

AFTER 155 HOURS (7 DAYS) OF IRRADIATION WITH BLACK LIGHT



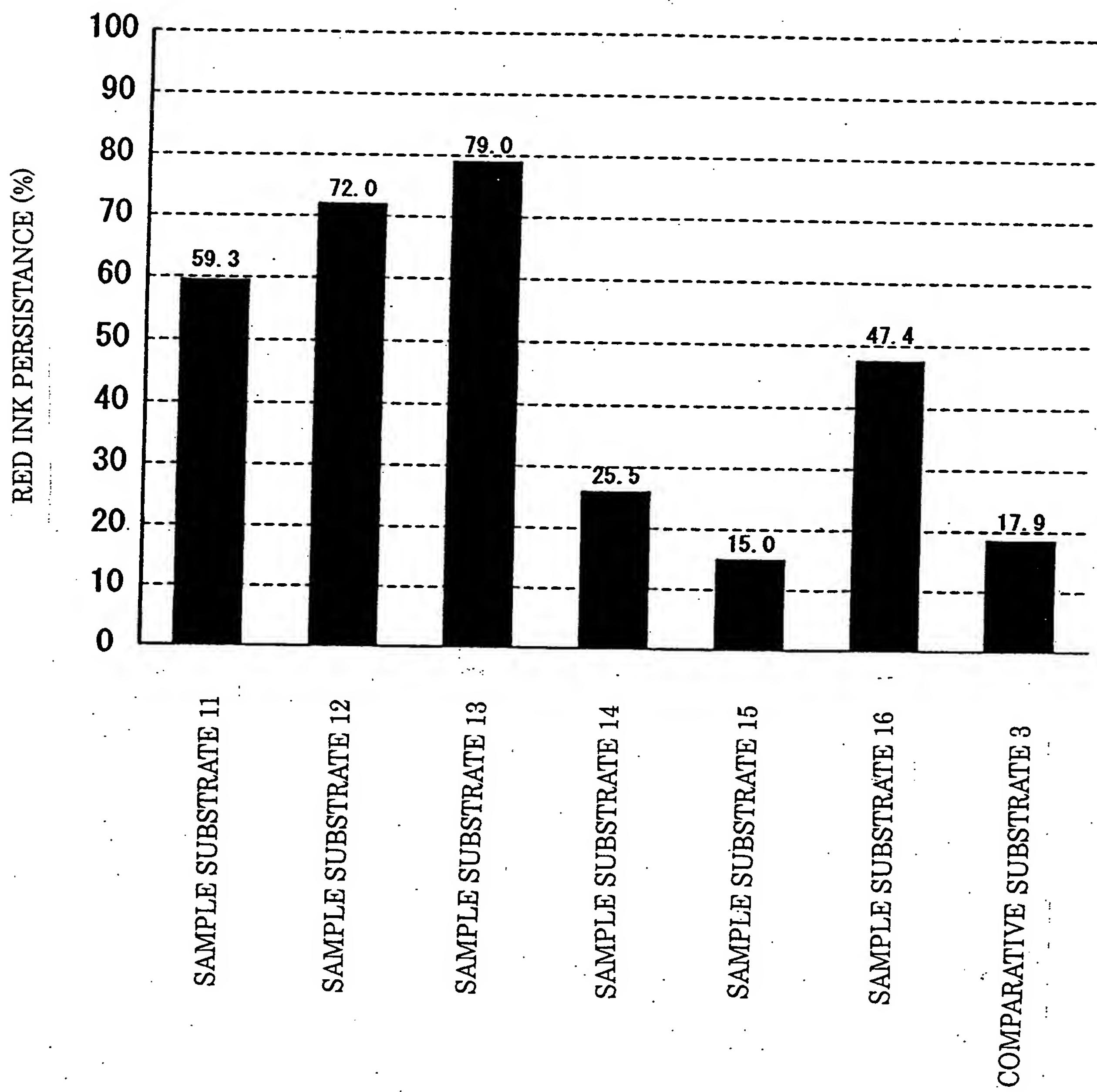
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【 FIG. 6 】



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【FIG. 7】



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【FIG. 8】

